

## PERFORMANCE BENCHMARKS

407.01B

### Forming Elements of a Becket Bend/Sheet Bend

**Discipline:** Ropes, Knots, & Hitches  
**Effective:** 1/1/2001  
**Revised:** 1/5/2012  
**Replaces:** Firefighter Benchmark #38

*Anne Huff, Fire Chief*

#### I. Objective

The firefighter shall demonstrate tying a becket bend (or sheet bend). The firefighter shall select the type and length of rope which will be adequate to meet the provisions of this skill. The firefighter shall verbally identify five (5) potential elements of rope degradation. The firefighter shall verbally identify the working, standing, and running sections of the rope. Because of various acceptable sequential steps in completing a finished knot, the examiner will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. The firefighter shall accomplish the skill in four (4) minutes or less.

#### II. Instructions – Procedures for Achieving the Objective

You will select the type and length of rope which will be adequate to meet this skill. You will verbalize five (5) potential elements of rope degradation. You shall demonstrate tying a becket bend (or sheet bend). I will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. You will also verbally identify the working, standing, and running sections of the rope. You will have four (4) minutes to complete this skill. The skill will begin on my instruction to start. The time will stop when you inform me that you have completed the skill. Do you understand these instructions?

#### III. Examiner's Note

The firefighter will not be allowed to review the performance steps at the time of testing.

#### IV. Preparation & Equipment

- A. Two adequate lengths of rope of different diameters.
- B. The firefighter shall accomplish the skill wearing a helmet.

#### V. Reference Sources

- A. TCFP, Performance Standard, Section 104-3.01, 4.01g
- B. NFPA, National Fire Protection Association 1001, 3-1.1.1, 3-1.1.2
- C. IFSTA Essentials of Fire Fighting, 4<sup>th</sup> Edition, pages 151, 169.

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### Discipline: Ropes, Knots, & Hitches

Name:	Officer #:
Evaluator:	Officer #:
Date:	Location:

**If the firefighter:**

(No partial points given)

- a) Inspects rope for damage and verbalizes at least 5 elements of rope degradation (Elements could include: softness, crusty spots, stiffness, brittleness, nicks, cuts, dirt, mildew, heat sears or discoloration, fuzziness, mushy spots, sheath sliding, lumps and/or depressions.)..... 1.0 \_\_\_\_\_
- b) Forms a bight in one of the ends to be tied (bight is formed in Larger diameter rope) and passes the end of the second rope through the bight ..... 1.0 \_\_\_\_\_
- c) Brings the loose end of the second rope around both parts of the bight..... 1.0 \_\_\_\_\_
- d) Passes the loose end of the second rope under its own standing part and over the bight..... 1.0 \_\_\_\_\_
- e) Draws the knot down snug, checking for slippage ..... 1.0 \_\_\_\_\_
- f) Completes the skill in the allotted time ..... 1.0 \_\_\_\_\_

Allotted time for this skill: 4 minutes

Time: \_\_\_\_\_ minutes \_\_\_\_\_ seconds

Points Possible	Passing Score	Attempt	Performance Rating (Points)	PASS	FAIL
6	4	First			
		Second			
		Third			